

ABSTRACT

PRODUCTION OF DISC COMPONENTS

A disc ~~component~~ component for a gas turbine engine is produced from a ~~workpiece~~ workpiece by a sequence of machining operations. During the machining operations, the ~~workpiece~~ workpiece is supported by a ~~fixture~~ fixture engaging support ~~surfaces~~ surfaces ~~32, 34~~. The ~~workpiece~~ workpiece remains secured to the ~~fixture~~ fixture throughout the sequence of machining operations so that these operations can be conducted on both ~~faces~~ faces ~~26, 28~~ of a disc ~~portion~~ portion of the ~~workpiece~~ workpiece without removing the ~~workpiece~~ workpiece from the ~~fixture~~ fixture. The machining operations are conducted alternately on the opposite ~~faces~~ faces ~~26, 28~~ in order to allow residual stresses in the ~~workpiece~~ workpiece to dissipate in a controlled manner.